	Application No.	Applicant(s)
Notice of Allowability	10/725,209	GRAH ET AL.
	Examiner	Art Unit
	Sanza L. McClendon	1711
The MAILING DATE of this communication appr All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. This communication is responsive to <u>12/1/2003</u> .		
2. The allowed claim(s) is/are <u>1-60</u> .		
3. \boxtimes The drawings filed on <u>01 December 2003</u> are accepted by	the Examiner.	
4.		
each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL r	must be submitted. Note the
Attachment(s)	5 Disting of Informal 5	Setont Application (DTO 452)
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		Patent Application (PTO-152)
	Paper No./Mail Da	te .
 Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 12/03 & 7/04 	08), 7. Examiner's Amendi	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. 🔲 Other	
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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on December 1, 2003 and July

19, 2004 has been considered by the examiner.

Allowable Subject Matter

2. Claims 1-60 are allowed.

3. The following is an examiner's statement of reasons for allowance: In the examiner's

opinion, it would not have been obvious for an artisan of ordinary skill in the art to expose a

packaging film comprising single-wall carbon nanotube materials to radiation as a way to

increase the gas transmission rate. While the prior art teach irradiation of polymers, such as

polyethylene to increase the gas transmission rates (see Tikhomirova et al PTO-1449, dated

7/2004), the prior art does not expressly teach and/or fairly suggest the inclusion of single

walled nanotube material in said methods. Additionally the prior art, such as Ding et al

(6,861,461) suggest ionomeric nanocomposite films comprising nanostructured materials, such

as single-walled and/or multi-walled nanotubes; however, there is no disclosure and/or

suggestion for an artisan of ordinary skill in the art to use irradiation exposure to increase the

gas transmission rates. Especially since the reference (Ding et al) teaches the compositions

comprising said nanostructed materials according to the invention form packages having

increased gas barrier properties compared to various conventional packaging materials—see

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column 15, lines 65-67 of Ding et al. There are also teachings in the prior art of dispersing carbon nanotube materials into polymer matrices, however these teaches do not expressly teach exposure to radiation nor mention/suggest increasing the gas transmission rate as suggest by the present invention. Therefore the examiner deems the instantly claimed invention is distinguished over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L. McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sanza L McClendon Examiner

Examiner Art Unit 1711

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